

In the Claims

1-12 (Canceled)

13. (Currently amended) A system for displaying graphical information related to a supply chain, comprising:

a database operable to store data associated with the supply chain; and

a graphical user interface (GUI) coupled to the database and operable to:

display a graph comprising a plurality of axes, a first axis being associated with a first dimension of the supply chain data, the first dimension for the first axis being associated with a first predetermined hierarchical arrangement of supply chain data for the first dimension comprising:

B1 a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the first axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the first axis; and

a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the parent member in the first level;

in response to selection of the first level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data ~~for the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent

member in the first level and representing a disaggregation of supply chain data for the parent member.

14. (Currently amended) The system of Claim 13, wherein a second axis of the graph is associated with a second dimension of the supply chain data, the second dimension for the second axis being associated with a second predetermined hierarchical arrangement of supply chain data for the second dimension comprising:

a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the second axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the second axis; and

B. a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the related parent member in the first level;

in response to selection of the first level for display of supply chain data with respect to the second axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the second axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent member in the first level and representing a disaggregation of supply chain data for the parent member.

15. (Currently amended) The system of Claim 13, wherein:
the first dimension comprises a seller dimension associated with a seller hierarchy;
each of a the plurality of members in the first level of the seller hierarchy represents all sellers within a corresponding geographic region; and
each of a the plurality of members in the second level of the seller hierarchy represents all sellers within a corresponding sub-region of a region represented by a member in the first level.

16. (Currently amended) The system of Claim 13, wherein:
the first dimension comprises a product dimension associated with a product hierarchy;
each of a the plurality of members in the first level of the product hierarchy represents all products associated with a corresponding product category; and
each of a the plurality of members in the second level of the product hierarchy represents all products associated with a corresponding sub-category of a product category represented by a member in the first level.

17. (Currently amended) The system of Claim 13, wherein:
the first dimension comprises a time dimension associated with a time hierarchy;
each of a the plurality of members in the first level of the time hierarchy represents all times within a corresponding time period; and
each of a the plurality of members in the second level of the time hierarchy represents all times within a corresponding sub-period of a time period represented by a member in the first level.

18. (Previously presented) The system of Claim 13, wherein the GUI is further operable to, in response to selection of a particular member of the first level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for the selected particular member.

19. (Previously presented) The system of Claim 18, wherein the GUI is further operable to, in response to selection of the particular member of the first level for display of supply chain data with respect to the first axis, display on the graph only the graphical representation of the supply chain data for the selected particular member.

20. (Previously presented) The system of Claim 18, wherein the GUI is further operable to, in addition to displaying the graphical representation of supply chain data for the selected particular member, display on the first axis of the graph a graphical representation of supply chain data for the parent member of each non-selected member of the first level.

21. (Previously presented) The system of Claim 13, wherein the GUI is further operable to:

receive a filter selection specifying a particular member within a level for which a graphical representation of supply chain data for the particular member is not to be displayed on the graph; and

in response to receiving the filter selection and selection of a level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for each member in the selected level other than the particular member specified in the filter selection.

22. (Previously presented) The system of Claim 21, wherein the GUI is further operable to:

display a window indicating the particular member specified in the filter selection, and

in response to selection of the particular member displayed in the window, display on the first axis of the graph a graphical representation of supply chain data for the particular member in addition to the graphical representation of supply chain data for the other members in the level of the particular member.

b. 23. (Previously presented) The system of Claim 13, wherein the graph comprises three axes, each axis being associated with a dimension of the supply chain, each dimension of supply chain data being associated with a predetermined hierarchical arrangement of supply chain data for the dimension.

24. (Currently amended) A method for displaying graphical information related to a supply chain, comprising:

storing data associated with the supply chain;

displaying a graph comprising a plurality of axes, a first axis being associated with a first dimension of the supply chain data, the first dimension for the first axis being associated with a first predetermined hierarchical arrangement of supply chain data for the first dimension comprising:

a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the first axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the first axis; and

a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the parent member in the first level;

in response to selection of the first level for display of supply chain data with respect to the first axis, displaying on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the first axis, displaying on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent member in the first level and representing a disaggregation of supply chain data for the parent member.

25. (Currently amended) The method of Claim 24, wherein:

a second axis of the graph is associated with a second dimension of the supply chain data, the second dimension for the second axis being associated with a second predetermined hierarchical arrangement of supply chain data for the second dimension comprising:

a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the second axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the second axis; and

a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the parent member in the first level; and

the method ~~comprising~~ comprises:

in response to selection of the first level for display of supply chain data with respect to the second axis, displaying on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the second axis, displaying on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent member in the first level and representing a disaggregation of supply chain data for the parent member.

26. (Currently amended) The method of Claim 24, wherein:
the first dimension comprises a seller dimension associated with a seller hierarchy;
each of a the plurality of members in the first level of the seller hierarchy represents all sellers within a corresponding geographic region; and
each of a the plurality of members in the second level of the seller hierarchy represents all sellers within a corresponding sub-region of a region represented by a member in the first level.

27. (Currently amended) The method of Claim 24, wherein:
the first dimension comprises a product dimension associated with a product hierarchy;
each of a the plurality of members in the first level of the product hierarchy represents all products associated with a corresponding product category; and
each of a the plurality of members in the second level of the product hierarchy represents all products associated with a corresponding sub-category of a product category represented by a member in the first level.

28. (Currently amended) The method of Claim 24, wherein:
the first dimension comprises a time dimension associated with a time hierarchy;
each of a the plurality of members in the first level of the time hierarchy represents all times within a corresponding time period; and
each of a the plurality of members in the second level of the time hierarchy represents all times within a corresponding sub-period of a time period represented by a member in the first level.

29. (Previously presented) The method of Claim 24, further comprising, in response to selection of a particular member of the first level for display of supply chain data with respect to the first axis, displaying on the graph a graphical representation of supply chain data for the selected particular member.

30. (Previously presented) The method of Claim 29, further comprising, in response to selection of the particular member of the first level for display of supply chain data with respect to the first axis, displaying on the graph only the graphical representation of the supply chain data for the selected particular member.

31. (Previously presented) The method of Claim 29, further comprising, in addition to displaying the graphical representation of supply chain data for the selected particular member, displaying on the first axis of the graph a graphical representation of supply chain data for the parent member of each non-selected member of the first level.

32. (Previously presented) The method of Claim 24, further comprising:
receiving a filter selection specifying a particular member within a level for which a graphical representation of supply chain data for the particular member is not to be displayed on the graph; and

in response to receiving the filter selection and selection of a level for display of supply chain data with respect to the first axis, displaying on the graph a graphical representation of supply chain data for each member in the selected level other than the particular member specified in the filter selection.

33. (Previously presented) The method of Claim 32, further comprising:
displaying a window indicating the particular member specified in the filter selection,
and

in response to selection of the particular member displayed in the window, displaying on the first axis of the graph a graphical representation of supply chain data for the particular member in addition to the graphical representation of supply chain data for the other members in the level of the particular member.

34. (Previously presented) The method of Claim 24, wherein the graph comprises three axes, each axis being associated with a dimension of the supply chain, each dimension of supply chain data being associated with a predetermined hierarchical arrangement of supply chain data for the dimension.

35. (Currently amended) Software for displaying graphical information related to a supply chain, the software being embodied in a computer-readable medium and when executed operable to:

store data associated with the supply chain;

display a graph comprising a plurality of axes, a first axis being associated with a first dimension of the supply chain data, the first dimension for the first axis being associated with a first predetermined hierarchical arrangement of supply chain data for the first dimension comprising:

a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the first axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the first axis; and

a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the parent member in the first level;

in response to selection of the first level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent member in the first level and representing a disaggregation of supply chain data for the parent member.

36. (Currently amended) The software of Claim 35, wherein:

a second axis of the graph is associated with a second dimension of the supply chain data, the second dimension for the second axis being associated with a second predetermined hierarchical arrangement of supply chain data for the second dimension comprising:

a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the second axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the second axis; and

a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the parent member in the first level; and

the software is operable to:

in response to selection of the first level for display of supply chain data with respect to the second axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the second axis, display on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent member in the first level and representing a disaggregation of supply chain data for the parent member.

37. (Currently amended) The software of Claim 35, wherein:
the first dimension comprises a seller dimension associated with a seller hierarchy;
each of a the plurality of members in the first level of the seller hierarchy represents all sellers within a corresponding geographic region; and
each of a the plurality of members in the second level of the seller hierarchy represents all sellers within a corresponding sub-region of a region represented by a member in the first level.

38. (Currently amended) The software of Claim 35, wherein:
the first dimension comprises a product dimension associated with a product hierarchy;
each of a the plurality of members in the first level of the product hierarchy represents all products associated with a corresponding product category; and
each of a the plurality of members in the second level of the product hierarchy represents all products associated with a corresponding sub-category of a product category represented by a member in the first level.

39. (Currently amended) The software of Claim 35, wherein:
the first dimension comprises a time dimension associated with a time hierarchy;
each of a the plurality of members in the first level of the time hierarchy represents all times within a corresponding time period; and
each of a the plurality of members in the second level of the time hierarchy represents all times within a corresponding sub-period of a time period represented by a member in the first level.

40. (Previously presented) The software of Claim 35, further operable to, in response to selection of a particular member of the first level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for the selected particular member.

41. (Previously presented) The software of Claim 40, further operable to, in response to selection of the particular member of the first level for display of supply chain data with respect to the first axis, display on the graph only the graphical representation of the supply chain data for the selected particular member.

42. (Previously presented) The software of Claim 40, further operable to, in addition to displaying the graphical representation of supply chain data for the selected particular member, display on the first axis of the graph a graphical representation of supply chain data for the parent member of each non-selected member of the first level.

43. (Previously presented) The software of Claim 35, further operable to:
receive a filter selection specifying a particular member within a level for which a graphical representation of supply chain data for the particular member is not to be displayed on the graph; and

in response to receiving the filter selection and selection of a level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for each member in the selected level other than the particular member specified in the filter selection.

44. (Previously presented) The software of Claim 43, further operable to:
display a window indicating the particular member specified in the filter selection,
and

in response to selection of the particular member displayed in the window, display on the first axis of the graph a graphical representation of supply chain data for the particular member in addition to the graphical representation of supply chain data for the other members in the level of the particular member.

45. (Previously presented) The software of Claim 35, wherein the graph comprises three axes, each axis being associated with a dimension of the supply chain, each dimension of supply chain data being associated with a predetermined hierarchical arrangement of supply chain data for the dimension.

46. (Currently amended) A system for displaying graphical information related to a supply chain, comprising:

means for storing data associated with the supply chain;

means for displaying a graph comprising a plurality of axes, a first axis being associated with a first dimension of the supply chain data, the first dimension for the first axis being associated with a first predetermined hierarchical arrangement of supply chain data for the first dimension comprising:

a plurality of levels each comprising one or more members, the plurality of levels comprising a first level comprising a plurality of members arranged in a predetermined manner with respect to the first axis and a second level comprising a plurality of members arranged in a predetermined manner with respect to the first axis; and

b. a parent member in a the first level being related to one or more child members in a the second level through a predetermined hierarchical relationship such that supply chain data for the parent member in the first level represents an aggregation of supply chain data for the one or more related child members in the second level and such that supply chain data for the one or more related child members in the second level represents a disaggregation of supply chain data for the parent member in the first level;

means for:

in response to selection of the first level for display of supply chain data with respect to the first axis, displaying on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the first level, at least one member in the first level being the parent member having the one or more related child members in the second level and representing an aggregation of supply chain data for the one or more related child members; and

in response to selection of the second level for display of supply chain data with respect to the first axis, displaying on the graph a graphical representation of supply chain data for ~~the one or more~~ each of the plurality of members in the second level, one or more members in the second level being the one or more related child members of the parent member in the first level and representing a disaggregation of supply chain data for the parent member.